

IN THE CLAIMS

Please amend claims 1, 4-5, 8-9, 14, 16, 20-21, 24-25, and 30-31, and cancel claims 2, 10-13, 17, 22-23, 26, 29, and 33-36, as follows:

1. (Currently Amended) A method of facilitating Push-to-talk over Cellular (PoC) communication sessions between mobile stations adapted to communicate via wireless signals in a wireless communication network, comprising:

maintaining, via the wireless network, a first Push-to-talk over Cellular (PoC) communication session between a first user group of mobile stations; and

concurrently maintaining, via the wireless network, a second PoC communication session between a second user group, the second user group having at least one common member with the first user group of mobile stations concurrently while maintaining the first PoC communication session between the first user group of mobile stations, where at least a first mobile station is a common member with both the first user group and the second user group in the first and the second PoC communication sessions, and the first user group of mobile stations has at least a second mobile station which is a non-member of the second user group outside of the second PoC communication session.

2. (Canceled)

3. (Previously Presented) The method of claim 1, wherein all members of the second user group are included in the first user group.

4. (Currently Amended) The method of claim 1, being performed by a PoC server of a communication network.

5. (Currently Amended) The method of claim 1, being performed by a the
first mobile station ~~corresponding to the at least one which is the~~ common member.

6. (Previously Presented) The method of claim 1, wherein the method is embodied in a computer program product comprising a computer storage medium and computer instructions stored in the computer storage medium.

7. (Previously Presented) The method of claim 1, further comprising:
prior to concurrently maintaining the second PoC group communication session, receiving or sending an invitation for the second PoC group communication session; and
wherein the act of concurrently maintaining the second PoC group communication session is in response to an invitation acceptance to the second PoC group communication session.

8. (Currently Amended) The method of claim 1, further comprising:
receiving data packets from both the first and the second PoC group communication sessions;
receiving an end user selection for communications associated with only one of the first and the second PoC group communication sessions at a time; and
in response to the end user selection, causing data packets of only the selected PoC group communication session to be processed for communications outputting audible signals of only the selected PoC communication session.

9. (Currently Amended) The method of claim 1, further comprising:
receiving data packets from both the first and the second PoC group communication sessions;
receiving an end user selection for communications with both the first and the second PoC group communication sessions at the same time; and

in response to the end user selection, causing data packets of both the first and second PoC group communication sessions to be processed ~~for communications and mixing audio signals of both the first and second PoC group communication sessions for output at a mobile station.~~

10-13. (Cancelled)

14. (Currently Amended) The method of claim 1, further comprising:
receiving encrypted data packets of the second PoC communication session;
if a decryption key for the encrypted data packets for the second PoC communication session is known, decrypting the encrypted data packets for the second PoC communication session; and
if the decryption key of the encrypted data packets for the second PoC communication session is unknown, refraining from decrypting the encrypted data packets for the second PoC communication session.

15. (Previously Presented) The method of claim 1, further comprising:
visually displaying an indication which indicates which one of the first and the second PoC group communication sessions is being processed for communications.

16. (Currently Amended) A mobile station, comprising:
a wireless transceiver operative for communications using wireless signals via a wireless communication network;
one or more processors coupled to the wireless transceiver;
the one or more processors being operative with use of the wireless transceiver to:
maintain a first Push-to-talk over Cellular (PoC) communication session between a first user group of mobile stations; and

~~concurrently maintain a second PoC communication session between a second user group of mobile stations, the second user group having at least one common member with the first user group concurrently while maintaining the first PoC communication session between the first user group of mobile stations, where the mobile station is a common member with both the first user group and the second user group in the first and the second PoC communication sessions, the first user group of mobile stations having at least one mobile station which is a non-member of the second user group outside of the second PoC communication session.~~

17. (Canceled)

18. (Previously Presented) The mobile station of claim 16, wherein all members of the second user group are included in the first user group.

19. (Previously Presented) The mobile station of claim 16, wherein the one or more processors are further operative to:

prior to concurrently maintaining the second PoC group communication session, receive or send an invitation for the second PoC group communication session; and

wherein concurrently maintaining the second PoC group communication session is in response to an invitation acceptance to the second PoC group communication session.

20. (Currently Amended) The mobile station of claim 16, wherein the one or more processors are further operative to:

receiving, via the wireless transceiver, data packets from both the first and the second PoC group communication sessions;

receive an end user selection for communications associated with only one of the first and the second PoC group communication sessions at a time; and

in response to the end user selection, cause data packets of only the selected PoC group communication session to be processed for ~~communications~~ outputting audible signals of only the selected PoC communication session.

21. (Currently Amended) The mobile station of claim 16, wherein the one or more processors are further operative to:

receiving, via the wireless transceiver, data packets from both the first and the second PoC group communication sessions;

receive an end user selection for communications with both the first and the second PoC group communication sessions at the same time; and

in response to the end user selection, cause the data packets of both the first and second PoC group communication sessions to be processed for ~~communications~~ outputting audible signals from both the first and the second PoC group communication sessions simultaneously.

22-23. (Canceled)

24. (Currently Amended) The mobile station of 16, wherein the one or more processors are further operative to:

receive, via the wireless network, encrypted data packets of the second PoC communication session;

decrypt the encrypted data packets for the second PoC communication session, if a decryption key for the encrypted data packets for the second PoC communication session is known; and

discard and refrain from decrypting the encrypted data packets for the second PoC communication session, if the key of the encrypted data packets for the second PoC communication session is unknown.

25. (Currently Amended) A Push-to-talk over Cellular (PoC) server of a wireless communication network, comprising:

one or more processors;

memory;

computer instructions stored in the memory;

the one or more processors being operative in accordance with the computer instructions to facilitate Push-to-talk over Cellular (PoC) communication sessions between mobile stations which are adapted to communicate via wireless signals in the wireless communication network by:

maintaining a first Push-to-talk over Cellular PoC communication session between a first user group of mobile stations; and

~~concurrently maintaining a second PoC communication session between a second user group of mobile stations, the second user group having at least one common member with the first user group concurrently while maintaining the first PoC communication session between the first group of mobile stations, where at least a first mobile station is a common member with both the first user group and the second user group in the first and the second PoC communication sessions, and the first user group of mobile stations has at least a second mobile station which is a non-member of the second user group outside of the second PoC communication session.~~

26. (Canceled)

27. (Previously Presented) The PoC server of claim 25, wherein all members of the second user group are included in the first user group.

28. (Previously Presented) The PoC server of claim 25, further comprising:
a first session ID corresponding to the first user group stored in the memory; and
a second session ID corresponding to the second user group stored in the memory.

29. (Canceled)

30. (Currently Amended) The PoC server of claim 25, wherein the one or more processors are further operative for:

receiving data packets from both the first and the second PoC group communication sessions;
~~receiving an end user a selection for communications associated with only one of the first and the second PoC group communication sessions at a time; and~~
~~in response to the end user selection, causing data packets of only the selected PoC group communication session to be processed for communications and discarding data packets of the other PoC group communication session.~~

31. (Currently Amended) The PoC server of claim 25, wherein the one or more processors are further operative for:

receiving data packets from both the first and the second PoC group communication sessions;
~~receiving an end user a selection for communications with both the first and the second PoC group communication sessions at the same time; and~~
~~in response to the end user selection, causing the data packets of both the first and second PoC group communication sessions to be processed for communications,~~

mixing audio signals of both the first and second PoC group communication sessions, and sending data packets having the mixed audio signals to a mobile station.

32. (Previously Presented) The PoC server of claim 25, wherein the one or more processors are further operative to:

receiving encrypted data packets of the second PoC communication session.

33. (Currently Amended) ~~In a mobile station, a~~ A method in a mobile communication device of processing Push-to-talk-over Cellular (PoC) group communication sessions which are facilitated via a wireless communication network, the method comprising the acts of:

maintaining, by the mobile device, a first Push-to-talk-over Cellular (PoC) group communication session which is facilitated via the wireless network;

receiving or sending, at the mobile device via the wireless network, an invitation into a second PoC-group communication session which is facilitated via the wireless network;

receiving sending, from the mobile device via the wireless network, an invitation acceptance which accepts the invitation into the second PoC group communication session; and

in response to sending the invitation acceptance, facilitating the participation into participating, by the mobile device, in the second PoC group communication session without terminating the first group communication session by:

receiving, via the wireless network, data packets from both the first and the second group communication sessions; and

causing the data packets of both the first and second group communication sessions to be processed for outputting, from the mobile device, audible signals of both the first and the second group communication sessions simultaneously.

34. (Currently Amended) The method of claim 33, ~~further comprising:~~
~~receiving an end user selection for communications with only one of the first and~~
~~the second PoC group communication sessions; and~~
~~in response to the end user selection, causing only data packets associated with~~
~~the selected session to be processed for communications wherein the first group~~
~~communication session is a first Push-to-talk over Cellular (PoC) communication session~~
~~and the second group communication session is a second PoC communication session.~~

35. (Currently Amended) The method of claim 33, ~~further comprising:~~
~~receiving an end user selection for communications with both the first and the~~
~~second PoC group communication sessions; and~~
~~in response to the end user selection, causing data packets associated with both~~
~~the first and the second PoC group communication sessions to be processed for~~
~~communications wherein the first group communication session has a first user group of~~
~~mobile stations and the second group communication session has a second user group~~
~~of mobile stations, and the first user group includes at least one mobile station which is~~
~~a non-member of the second user group outside of the second communication session.~~

36. (Currently Amended) The method of claim 33, further comprising:
~~visually display which one of displaying identifications of the first and the second~~
~~PoC group communication sessions is being processed for communications.~~